

WELCOME



Proposed Airborne Toxic Control Measure to Limit Commercial Heavy-Duty Diesel-Fueled Vehicle Idling

**Public Workshop
March 2, 2004**

Air Resources Board



California Environmental Protection Agency

Agenda

- Background
- Preliminary Draft ATCM
 - Applicability
 - Requirements
 - Exceptions
- Examples of Alternative Technologies
- Emission Benefits
- Costs / Benefits
- Outreach
- Discussion



Background

Existing Regulations / Ordinances



Out- Of-State:

- Eight states have state-wide idle limiting regulations
- Twelve states have local restrictions
- Majority have idling limit of 5 minutes or less

Background

Existing Regulations / Ordinances Cont'd

California:

School Bus Idling ATCM:

- limits to 5 or less minutes idling



Placer County Ordinance:

- limits to 5 minutes idling per location
- applies to diesel-powered trucks > 26,000 GVWR
- applies to off-road diesel powered equipment > 70 hp

Idling at Ports (AB2650):

- limits idling at ports - including time spent in queue

Draft ATCM



Applicability

- All commercial diesel-powered vehicles operating in California with GVWR > 14,000 lbs.
- Will apply to out-of-state and out-of-country vehicles when operating in California

Draft ATCM (Cont'd) Requirements

- General Idling
- Sleeper Berth Equipped Vehicles
- Buses

Note: Exceptions are applicable to all of the above categories



Draft ATCM (Cont'd) Requirements

General Idling

All applicable vehicles

- Vehicle shall not idle longer than 5 minutes per location
- Effective upon approval by the Office of Administrative Law (OAL)
- Examples



Draft ATCM (Cont'd) Requirements



Sleepers

- After December 31, 2009, shall not idle the primary engine for greater than 5 minutes at any location and subject to the same requirements under “General” idling.
- Prior to January 1, 2010, may exceed the 5 minute idling limit only if:
 - alternate means to idling are not available
 - only while using sleeping berth
- Implementation date will allow for planning and infrastructure development

Alternative Technologies Examples:

Staff is investigating the use of alternative technologies/strategies to provide power for cab/sleeper comfort/other ancillaries. These may include:

- Truck Stop Electrification (TSE or Shore power)
- Advanced Truck Stop Electrification
- Auxiliary Power Units (APUs)
- Fuel Fired Heaters



Draft ATCM (Cont'd) Requirements

Commercial Buses

- Idle time - T.B.D.
- Houston pull-down test
- Pursuing Input



Draft ATCM (Cont'd) Exceptions

- When stopped for traffic conditions over which the driver has no control
- Testing, servicing, repairing or diagnostic purposes that requires engine idling
- Necessary to prevent a safety or health emergency
- Idling is necessary to accomplish work for which the vehicle was designed



Possible Issues

- Queuing
 - Scenarios / examples
- Sleeper “sunset date”
- Federal law and bus idling
- Others?



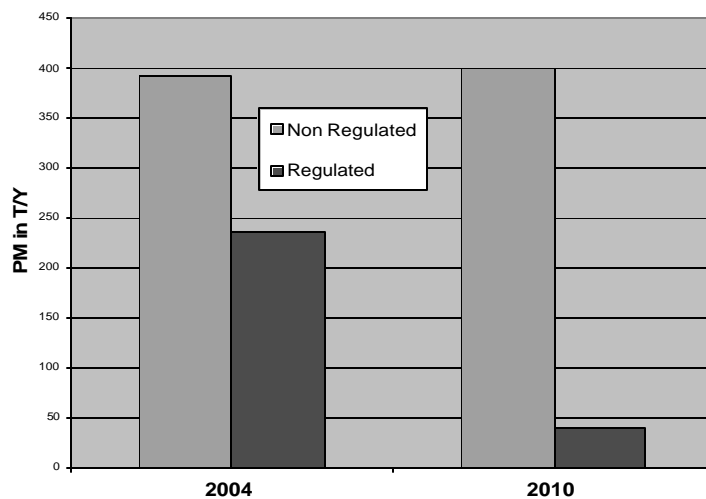
Emission Inventory

EMFAC 2002

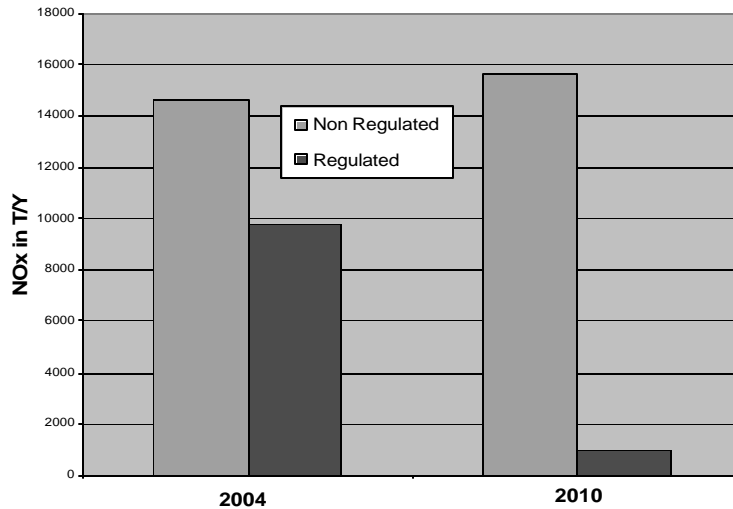
	<u>2003</u>	<u>2010</u>
Heavy Heavy-Duty*	170,513	201,186
Medium Heavy-Duty	166,801	200,087
Buses	15,345	17,210
Total	354,662	420,493

***Includes out-of-state trucks**

Preliminary Estimate of PM Emission Reductions



Preliminary Estimate of NOx Emission Reductions



Preliminary Estimated Costs and Benefits

Benefits

- **Idling costs money**
 - Diesel fuel price: \$1.80 / gallon
 - Estimated maintenance savings : \$0.14 / hr
- **Non-Sleeper**
 - 0.8gal/hr during idle
 - 15,000 buses \$170 /yr. \$2,500,000 fleet/yr.
 - 187,000 MHDV \$170 /yr. \$31,800,000 fleet/yr.
 - HHDV (non-sleeper) 340.00 /yr. \$36,000,000 fleet/yr.
- **Sleeper - 1gal/hr idle main engine**
 - **Alternative cost examples**
 - APU - \$6,800 (.2 gal/hr)
 - TSE - \$2,700 + \$.50 per/hr
 - ATE - \$300 + \$1.50 / hr

Enforcement / Outreach



- Primary enforcement responsibility will be with ARB and peace officers
- Outreach:
 - Possible signage at truck stops, commercial fueling stations and border crossings
 - Possible addition to commercial vehicle driving test, informational notices with yearly registration or signage at DMV
 - Outreach via professional organizations.

Thank You For Participating!

Future Public Workshop:

- March 2004, Sacramento, TBD
- **Board Meeting: May 20-21, 2004**
- **Please Visit Our Website:**
 - Join our listserve for email updates
 - Contact information
 - Future outreach efforts / updates



<http://www.arb.ca.gov/toxics/idling/idling.htm>
<http://www.arb.ca.gov/toxics/idling/idling.htm>